

IndustryNews

New Nanopositioning Solutions Catalog

Motion and precision positioning systems company PI (Physik Instrumente) issued a catalog on newly introduced precision motion solutions for photonics, robotics, microscopy, and highly accurate industrial automation applications. The 80-page catalog covers products and custom engineered systems, including automated photonics-alignment engines, linear motor stages, piezo actuators, air bearings, hexapod Stewart platforms, and high-performance motion controllers. Creative application solutions complement the existing comprehensive portfolio of precision motion and positioning technologies, components, and systems.

PI (Physik Instrumente)
www.pi-usa.us

Thermo Fisher Scientific Advances Cryo-EM Leadership to Drive Structural Biology Discoveries



Thermo Fisher Scientific has extended its leadership in cryo-EM with the introduction of two new instruments: the Thermo Scientific Krios G3i TEMM and the Thermo Scientific Glacios cryo-TEM. The new instruments, which can be used independently or together in a single particle analysis (SPA) workflow, make structural analysis of proteins, protein complexes, and other biomolecular structures faster, easier, and more accessible than ever before.

Thermo Fisher Scientific
www.thermofisher.com

Nikon Announces New Imaging Center

Nikon Instruments Inc. announced development of the newest Nikon Imaging Center at UC San Diego. This collaborative microscopy center provides researchers from UC San Diego and the local research community with access to the latest generation of cutting-edge imaging technologies, enhancing research capabilities, while also giving them a voice in future Nikon product development. The Nikon Imaging Center at UC San Diego will be instrumental in ongoing and future research initiatives through state-of-the-art imaging technology.

Nikon Instruments Inc.
www.nikoninstruments.com

Pfeiffer Vacuum Acquires Nor-Cal Products

Vacuum Technology AG (“Pfeiffer Vacuum”) announces the acquisition of US-based Nor-Cal Products Inc. (“Nor-Cal”). Nor-Cal manufactures premium-quality vacuum components, chambers, and valves for international customers in the fields of semiconductors, coatings, and displays, as well as for leading universities and research facilities. Pfeiffer Vacuum will take advantage of Nor-Cal’s high profile and its advanced online and offline sales channels to win new customers and grow its market share in North America.

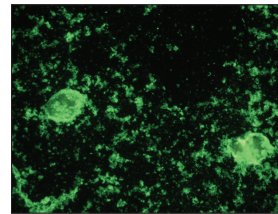
Pfeiffer Vacuum, Inc.
www.pfeiffer-vacuum.com

JPK Reports on How the University of Glasgow is Using Their NanoWizard® AFM and CellHesion Module to Study How Cells Interact with Their Surroundings

JPK Instruments is pleased to report on the Yin group in the Division of Biomedical Engineering at the University of Glasgow. They are studying cells and how they react with their surroundings using JPK’s NanoWizard® AFM and CellHesion® module. The NanoWizard® has been particularly flexible for integration with other techniques.

JPK Instruments AG
www.jpk.com

New *Entamoeba histolytica* Monoclonal Antibodies



E. histolytica is an anaerobic parasite that causes amoebic dysentery. It infects humans and other primates via the fecal oral route. Symptoms include abdominal pain, bloody diarrhea, and weight loss. It can result in intestinal lesions and liver abscess. ViroStat just released a set

of new mouse monoclonal antibodies to *E. histolytica*. These new antibodies function in ELISA and lateral flow applications and thus serve as excellent tools for the detection of this parasite.

ViroStat, Inc.
www.virostat-inc.com

Vision Engineering Opens New Global Headquarters



Vision Engineering Ltd. announced the opening of its new Global Headquarters in Surrey, UK. The 129,200 SF building replaces two buildings, a 33,000 SF production and design factory, and a 28,000 SF commercial building. Rob Freeman, CEO of the growing company,

led the grand opening of his eponymous building in the presence of the mayor of Guildford, the Lord Lieutenant of Surrey, and invited guests and Vision Engineering employees from around the world.

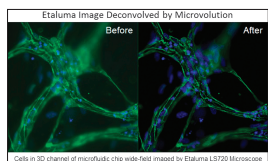
Vision Engineering Inc.
www.visioneng.us

Dr. Cliff Jolliffe is PI’s Head of Precision Automation Technologies Market Segment

PI (Physik Instrumente) has named Dr. Cliff Jolliffe as Head of Segment Marketing – Automation, in Karlsruhe, Germany. He brings with him over two decades of automation technology experience. For the last 15 years, Jolliffe worked for a well-known precision mechatronics company as subsidiary manager, Laser Medical and Micromachining Manager, and was also responsible for sales of digital motion controllers across Europe.

PI (Physik Instrumente)
www.pi-usa.us

Etaluma and Microvolution Announce Partnership on Real-Time Image Deconvolution

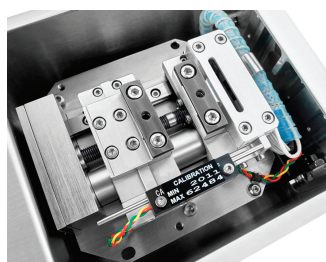


The Etaluma and Microvolution strategic partnership combines the power of imaging of Etaluma's next-generation inverted fluorescence LS Microscopes (Lumascope) and Microvolution's GPU-based deconvolution algorithms.

Microvolution's software provides confocal-like images from wide-field optics. Etaluma's high-resolution fluorescence LS Microscopes offer a simplified approach to live cell imaging. Adding Microvolution to the Etaluma system will enable users to further improve resolution in the LS line of inverted fluorescence microscopes.

Etaluma, Inc. and Microvolution, LLC
www.etaluma.com and www.microvolution.com

Phenom-World Selects Deben to Supply a Tensile Stage as an Accessory to Their Range of Desktop SEMs



Deben has been chosen by Phenom-World to supply the Microtest Tensile Stage as an accessory to their Phenom XL range of desktop scanning electron microscopes. The tensile stage from Deben is a robust device that is easy to use. It is loaded into the Phenom XL like any other sample holder.

Phenom-World and Deben UK Limited
www.phenom-world.com and www.deben.co.uk

The Physics Department of Imperial College, London, Publish Their Work on Using the Quorum Technologies Q150T Coater

Dr. Avi Braun is a Research Associate in the Faculty of Natural Sciences, Department of Physics at Imperial College, London. Dr. Braun and his colleague, Professor Stefan Maier, published work in *ACS Sensors*. It describes their use of the Quorum Technologies Q150T coater to deposit a variety of metals and ITO (indium-tin oxide) to make plasmonic sensors and electric contact pads.

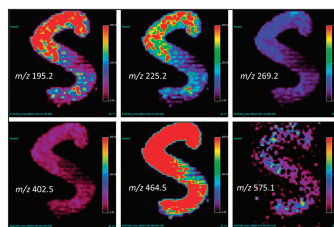
Quorum Technologies
www.quorumtech.com

Basler ace L Enters Series Production

Basler is starting the series production of the twelve new ace L models with the high-resolution sensors, with state-of-the-art global shutter technology, from Sony's Pregius line. The twelve new ace L models offer resolutions of 9 and 12 megapixels and frame rates of up to 40 fps. They offer Pregius image quality with a dynamic range of more than 70 dB and a high quantum efficiency over a broad spectrum of visible light into the NIR.

Basler AG
www.baslerweb.com/new-ace

New MALDI Imaging Applications Note



JEOL USA has produced a new MALDI imaging technical applications note that describes the unique analytical process for a variety of biological and organic samples. MALDI imaging is a powerful mass spectrometry technique available with JEOL's MALDI Imaging SpiralTOF. It is used to assess the distribution of proteins, peptides, lipids, drugs, and metabolites in tissue specimens, as well as compound distribution in organic materials. MALDI is an acronym for matrix-assisted laser desorption/ionization mass spectrometry.

JEOL USA
go.jeolusa.com/MALDI

Laser 2000 (UK) in New Partnership with Hamamatsu



Laser 2000 (UK) announced their new partnership with Hamamatsu. It will see two of the latest Hamamatsu innovations being added to Laser 2000's broad portfolio of photonics products. The first of the two products available through Laser 2000 is

the ORCA-spark. It is a fast, low-noise, high-sensitivity digital CMOS camera. The second product is the W-VIEW GEMINI. It combines image-splitting optics and specialized alignment software to allow simultaneous dual-wavelength imaging.

Laser 2000 (UK) Ltd
www.laser2000.co.uk

New Method Pushes the Frontier in Imaging Resolution and Distinguishes Individual Features in Single Molecules

Scientists at Harvard University's Wyss Institute for Biologically Inspired Engineering have demonstrated an optical resolution of less than five nanometres (<5 nm). The technology, which the team calls Discrete Molecular Imaging (DMI), was developed using either an ultra-sensitive Andor Zyla 4.2 or iXon Ultra 897 camera at its heart to achieve the highest resolution in optical microscopy yet seen.

Andor Technology Ltd
www.andor.com/ixon

Basler Continues Its Road of Success with Strong Growth and Extraordinary Profitability

In a very dynamic market environment, Basler AG closed the first half-year of 2017 with new record values in incoming orders and sales. In the same period Basler's incoming orders grew by 100% and sales by 62%. Basler notes, "We are very well prepared for the second half-year of 2017 and will continue to forge ahead with our growth strategy."

Basler AG
www.baslerweb.com